
ABSTRACT OF THE DISCLOSURE

Q! To produce a fuel spray that is asymmetrical in the flow rate distribution of a sprayed fuel in order to improve the homogeneity of air-fuel mixture density during the air intake stroke injection for homogeneous combustion in an in-cylinder injection engine, the exit portion of the fuel injection hole is provided with the wall surfaces 204a, 204b, 205a, and 205b that are parallel to the central axis of the injection hole. Also, the periphery of the injection hole is provided with a plurality of areas in which the flow of the fuel in the radial direction of the injection hole will be restrained, and a plurality of areas in which the flow of the fuel in the radial direction of the injection hole will not be restrained, and a different size is assigned to each non-restraint area.
